

Box #  
15559737

5,088,484  
SPEC 468

The  
United  
States  
of  
America

The Commissioner of Patents  
and Trademarks

*Has received an application for a patent  
for a new and useful invention. The title  
and description of the invention are en-  
closed. The requirements of law have  
been complied with, and it has been de-  
termined that a patent on the invention  
shall be granted under the law.*

*Therefore, this*

United States Patent

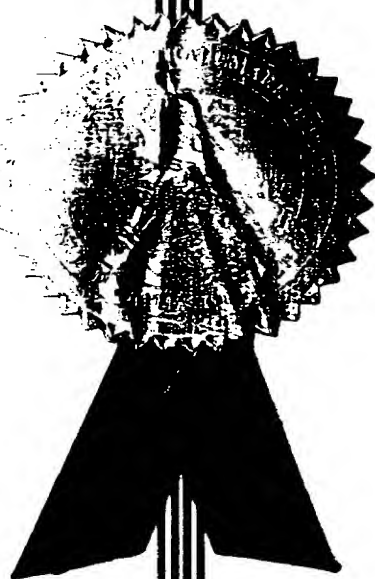
*Grants to the person or persons having  
title to this patent the right to exclude  
others from making, using or selling the  
invention throughout the United States  
of America for the term of seventeen  
years from the date of this patent, sub-  
ject to the payment of maintenance fees  
as provided by law.*

*Harry F. Manbeck, Jr.*

Commissioner of Patents and Trademarks

*Linda O. Bennett*

Attest



51465

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 5,088,484  
DATED : February 18, 1992  
INVENTOR(S) : Freeman, et. al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 3, line 19, delete "ion" and insert -- cast of the invention in position --.

Column 4, line 3, delete "30" and substitute -- 12 --.

Signed and Sealed this  
First Day of February, 1994

Attest:

*Sandra J. Morton*  
Attesting Officer

*Bruce Lehman*

BRUCE LEHMAN

Commissioner of Patents and Trademarks